854 Bldg.

AIR SAMPLE FIEI Project Name: Project Number: Sampled by: Sampling Date:	Marcus Hoo 213402567 2/15/2017		Location ID Weather:	AOIS	5-AI-01	<b>Stantec</b>
Canister/Flow Contro	oller Informa				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Date/Time: NA
Canister Size: 6L Canister Serial Number: 5590 Flow Controller Type (hrs): 8 Flow Controller Serial Number: 4429			- Performed	e canister vacuum (inHo Pre-sample measurem flow controller Shut In flow controller Shut In T	nent tool: Digital gau Test: Yes / No	Date/Time: NA ge / analog gauge
Sampling Information	n					
	Time	Vacuum (inHg)	Ambient (Exterior) Temperature (°F)	Barometric Pressure (inHg)	Interior Temperature (°F)	Canister Condition/Comments
Sample Start:	0742	-29	35	2 9.53	3º <del>68</del> 70	
Interim Check:		-27				Oppm (PID)
Interim Check:		392				11
Interim Check:		-20				
Interim Check:		-13				
Interim Check:						
Interim Check: Interim Check:						
Interim Check:						
Interim Check:		× 1				
Sample End:			2 8	29.39	NO 68 70	
Description of Sampling Sketch of Sampling Lo		South Con	J- Porm			Laboratory:  ESC  Laboratory Sample ID:
						Analysis Requested: TO-15, Evergreen Comprehensive List Additional Notes:

854 Bldg.

AIR SAMPLE FIE Project Name: Project Number: Sampled by: Sampling Date:	Marcus Hoo 213402567 2/15/2017		Location ID Weather:	AOI	5-AI-02	<b>Stantec</b>
Canister/Flow Contr	oller Informa					NA.
Canister Size: Canister Serial Numb Flow Controller Type Flow Controller Serial	(hrs): Number:	6L 5134 8 6499	- Performed	e canister vacuum (inHo Pre-sample measurem flow controller Shut In Tow controller Shut In T	nent tool: Digital gau Test: Yes / No	Date/Time: NA ge / analog gauge
Sampling Information	n					
	Time	Vacuum (inHg)	Ambient (Exterior) Temperature (°F)	Barometric Pressure (inHg)	Interior Temperature (°F)	Canister Condition/Comments
Sample Start	0740	-29	35	29.53	SP 6-870	
Interim Check	And the second	-28				Oppm (PID)
Interim Check Interim Check		-24				
Interim Check		-13				
Interim Check	Control of the Contro					
Interim Check	:					
Interim Check						
Interim Check						
Interim Check Sample End			7 &	<i>१।।।।।</i> २१.३१	30 <del>68</del> 70	
Description of Sampli		South Co	/	ile Rom')		Laboratory:
Sketch of Sampling L	ocation:					ESC
						Laboratory Sample ID:
						Analysis Requested: TO-15, Evergreen Comprehensive List
						Additional Notes:

AIR SAMPLE FIEL Project Name: Project Number: Sampled by: Sampling Date:	D INFORM Marcus Hook 213402567 2/15/2017		Location ID Weather:	AOIS	5-AI-03	Stantec
Canister/Flow Contro	oller Informat	ion				
Flow Controller Serial	ister Size: 6L			e canister vacuum (inHe Pre-sample measurem flow controller Shut In flow controller Shut In 7 :	ient tool: Digital gau Test: Yes / No	_Date/Time:NA ge / analog gauge
Sampling Information	n					
	Time	Vacuum (inHg)	Ambient (Exterior) Temperature (°F)	Barometric Pressure (inHg)	Interior Temperature (°F)	Canister Condition/Comments
Sample Start:	0655	-32	31	29,56	68	
Interim Check:		-25				Oppm (PID)
Interim Check:		-99				, ,
Interim Check:		-21				
Interim Check: Interim Check:		- 13	\(\(\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
Interim Check:						
Interim Check:						
Interim Check:						
Interim Check:						
Sample End:		-6	28	29,39	70	
Description of Samplin		Cont./Bn	eak Rom			Laboratory:  ESC  Laboratory Sample ID:
						Analysis Requested: TO-15, Evergreen Comprehensive List Additional Notes:

Maint. shop

AIR SAMPLE FIE Project Name: Project Number: Sampled by: Sampling Date:	Marcus Hoo 213402567 2/15/2017		Location ID Weather:	): <u>AoI5</u>	-AI -04	<b>Stantec</b>
Canister/Flow Contr	oller Informa					
Canister Size: Canister Serial Numb Flow Controller Type Flow Controller Serial	(hrs):	6L 5550 8 5468	- Performed	e canister vacuum (inHe Pre-sample measurem flow controller Shut In flow controller Shut In 7 :	nent tool: Digital gau Test: Yes / No	ge / analog gauge
Sampling Information	n					
	Time	Vacuum (inHg)	Ambient (Exterior) Temperature (°F)	Barometric Pressure (inHg)	Interior Temperature (°F)	Canister Condition/Comments
Sample Start	0725	-30	3 1	29.56	70	
Interim Check		-26				Oppm (PID)
Interim Check		-22				,,
Interim Check Interim Check		-14				
Interim Check						
Interim Check						
Interim Check						
Interim Check						
Interim Check						
Sample End	1510	-6	28	29.39	70	
Description of Sampli		Meeting	Rm Break	frea_		Laboratory:
						Laboratory Sample ID:
						Analysis Requested: TO-15, Evergreen Comprehensive List
						Additional Notes:

ladies Locken Rm (AOIS-AI-05)

AIR SAMPLE FIE Project Name: Project Number: Sampled by: Sampling Date:	Marcus Hool 213402567 2/15/2017		Location ID Weather:	A ÓI	5-AT-05	<b>Stantec</b>
Canister/Flow Control Canister Size: Canister Serial Number Flow Controller Type ( Flow Controller Serial	er: (hrs): Number:	tion 6L 5052 8 5685	- Performed	canister vacuum (inHo Pre-sample measurem flow controller Shut In low controller Shut In T	nent tool: Digital gau Test: Yes / No	Date/Time: NA ge / analog gauge
Sampling Informatio	Time	Vacuum (inHg)	Ambient (Exterior) Temperature (°F)	Barometric Pressure (inHg)	Interior Temperature (°F)	Canister Condition/Comments
Sample Start: Interim Check: Sample End:	0350 1012 1230 1435	-30 -25 -21 -13 -5	3 1	29,56	70	Oppm (PID)
Description of Sampling L		Central	locker Aver			Laboratory: ESC  Laboratory Sample ID:  Analysis Requested: TO-15, Evergreen Comprehensive List Additional Notes:

Braskem

AIR SAMPLE FIEI Project Name: Project Number: Sampled by: Sampling Date:	umber: 213402567 by: 2/15/2017		Location ID Weather:			<b>Stantec</b>		
Canister/Flow Contro	oller Informa							
Canister Size: 6L Canister Serial Number: 5306 Flow Controller Type (hrs): 8 Flow Controller Serial Number: 6496			- Performed	Pre-sample canister vacuum (inHg): NM Date/Time: NA Pre-sample measurement tool: Digital gauge / analog gauge Performed flow controller Shut In Test: Yes / No Results of flow controller Shut In Test: Pass / Fail				
Sampling Information	n							
	Time	Vacuum (inHg)	Ambient (Exterior) Temperature (°F)	Barometric Pressure (inHg)	Interior Temperature (°F)	Canister Condition/Comments		
Sample Start:	0755	-30	31	29,56	68			
Interim Check:	1840	- 19 - 21 - 14				Oppm (PID)		
Sample End:		-6	28	29.39	68			
Description of Sampling Lo		Braskem 1	Bldg. Contro	1 Operator &	250M	Laboratory: ESC  Laboratory Sample ID:  Analysis Requested: TO-15, Evergreen Comprehensive List  Additional Notes:		

AIR SAMPLE FIEL Project Name: Project Number: Sampled by: Sampling Date:	Marcus Hoc 213402567 Jenny 2/15/2017	ok AOI 5	Location ID Weather:	AOI	S-AI-08 overcast	Stantec	
Canister/Flow Contro Canister Size: Canister Serial Number Flow Controller Type (I Flow Controller Serial I	r: nrs): Number:	6L 1166 8 005482	Performed	e canister vacuum (inH Pre-sample measuren flow controller Shut In flow controller Shut In	nent tool: Digital gau Test: Yes / No	Date/Time: NA ge / analog gauge	
	Time	Vacuum (inHg)	Ambient (Exterior) Temperature (°F)	Barometric Pressure (inHg)	Interior Temperature (°F)	Canister Condition/Comments	
Sample Start:	0802	26	3 2	29,53	83	Good	
Interim Check:	6942	26				Cleaner odul - not no	ricing
Interim Check:	1013	2≤				Good	hash
Interim Check:	1150	19				P±0=0.0pp	Capst
Interim Check:	1335	16.5					terror
Interim Check:	1645	-9					
Interim Check:							
Interim Check:							- 1
Interim Check: Interim Check:							
Sample End:	V	V	2 6	29,43	8 F		
Description of Samplin		Desk Manda	in center ste	of building		Laboratory: ESC  Laboratory Sample ID:	
						AOIS-AI-08-2017021	5
		AI-0 I				AULS-AL -0 8 BOILDOX!	
		75	225			Analysis Requested:	
						TO-15, Evergreen Comprehensive	List
	Des	3167				Additional Notes:	



AIR SAMPLE FIE Project Name: Project Number: Sampled by: Sampling Date:	Marcus Hoo 213402567 2/15/2017		Location ID Weather:	A015	-AA-09	<b>Stantec</b>			
Canister/Flow Contro	oller Informa		Dro sampla	canister vacuum (inH	g): NM	Date/Time: NA			
Canister Size: 6L Canister Serial Number: 5170 Flow Controller Type (hrs): 8 Flow Controller Serial Number: 5373			Performed Results of f	Pre-sample canister vacuum (inHg): NM Date/Time: NA Pre-sample measurement tool: Digital gauge / analog gauge Performed flow controller Shut In Test: Yes / No Results of flow controller Shut In Test: Pass / Fail Comments:					
Sampling Informatio	n								
	Time	Vacuum (inHg)	Ambient (Exterior) Temperature (°F)	Barometric Pressure (inHg)	Interior Temperature (°F)	Canister Condition/Comments			
Sample Start:	0730	-30	32	29156	NA				
Interim Check:		-27				Oppm (AD)			
Interim Check:		-21							
Interim Check: Interim Check:	1	-12							
Interim Check:									
Interim Check:									
Interim Check:									
Interim Check:									
Interim Check:									
Sample End:	1440	-5	28	29.39	VA				
Description of Samplin	9	near Fer Maint shop		Sldg.	<del>16</del>	Laboratory:  ESC  Laboratory Sample ID:			
						Analysis Requested: TO-15, Evergreen Comprehensive List Additional Notes:			



AIR SAMPLE FIED Project Name: Project Number: Sampled by:	LD INFORI Marcus Hoo 213402567		_ Location ID Weather:	AOIS	5-AA-10	<b>Stantec</b>
Sampling Date:	2/15/2017		_			
Canister/Flow Contro	oller Informa					
Canister Size: Canister Serial Number Flow Controller Type ( Flow Controller Serial	al Number:  er Type (hrs):  8  Performed flow controller Shut In Test: Yes / No  Results of flow controller Shut In Test: Pass / Fail  Comments:				nent tool: Digital gau Test: Yes / No	Date/Time: NA ge / analog gauge
Sampling Information	n					
	Time	Vacuum (inHg)	Ambient (Exterior) Temperature (°F)	Barometric Pressure (inHg)	Interior Temperature (°F)	Canister Condition/Comments
Sample Start:	1750	-30×	32	29156	NA	
Interim Check:	The same of the sa	-30				0 bbw (b10)
Interim Check:	The State of the S	-22				
Interim Check:		- 13				
Interim Check:						
Interim Check: Interim Check:						
Interim Check:						
Interim Check:						
Interim Check:						
Sample End:		-6	28	29,39	NA	
Description of Sampling Sketch of Sampling Lo		near We	11 MW-45			Laboratory: ESC
						Laboratory Sample ID:  Analysis Requested: TO-15, Evergreen Comprehensive List Additional Notes:

AIR	SAMP	LE	FIELD	INF	OR	MA	TI	10	1

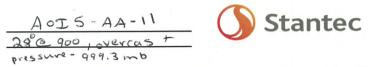
Project Name: Project Number: Marcus Hook AOI 5 213402567

Sampled by:

Jenny DeBoar

2/15/2017 Sampling Date:

Location ID: Weather:



Canister/Flow Controller Information

Canister Size:

6L 1800

Canister Serial Number: Flow Controller Type (hrs):

8 Flow Controller Serial Number: 005438 Pre-sample canister vacuum (inHg):

NM

Date/Time:

NA

Pre-sample measurement tool: Digital gauge / analog gauge

Performed flow controller Shut In Test: Yes / No Results of flow controller Shut In Test: Pass / Fail

Comments:

Sampling Information

	Time	Vacuum (inHg)	Ambient (Exterior) Temperature (°F)	Barometric Pressure (inHg)	Interior Temperature (°F)	Canister Condition/Comments
Sample Start:	6735	- 30+	28	29.60	NA	(o coch
Interim Check:	6918	- 26				Work on new piping torching year
Interim Check:	1112	- 19				Good, no work in area
Interim Check:	1302	- 12				. 0.0 ppm - good-no worker
Interim Check:	1440	- 7				Good
Interim Check:	1504	- 5.5				
Interim Check:	1					
Interim Check:						
Interim Check:						
Interim Check:	1					
Sample End:	<b>V</b>	~	28	29.39	NA	

Description of Sampling Location: Manging on Fence near SE corner of pad

Sketch of Sampling Location:

Laboratory:

**ESC** 

Laboratory Sample ID:

A OIS - AA - 11

Analysis Requested:

TO-15, Evergreen Comprehensive List

Additional Notes:

Acetore being used, Advantage using propose torch, welding

PID=0.0ppm

	ELD INFORMATION  Marcus Hook AOI 5 213402567  Janny De Boer 2/15/2017		_ Location ID _ Weather: _	Location ID:  Weather:  AOIS-AA-12  Wester:  AS, overcoust		Stantec	
anister/Flow Contro	ller Informa	tion					
Canister/Flow Controller Information Canister Size: Canister Serial Number: Clow Controller Type (hrs): Clow Controller Serial Number:		Performed	canister vacuum (inH Pre-sample measuren flow controller Shut In low controller Shut In	_Date/Time:NA uge / analog gauge			
ampling Information	1		Comments.				
	Time	Vacuum (inHg)	Ambient (Exterior) Temperature (°F)	Barometric Pressure (inHg)	Interior Temperature (°F)	Canister Condition/Comments	
Sample Start:	0830	27	2.8	29.60	NA	4250do/	
Interim Check:	1002	22				M25 odes	
Interim Check:	1134.	17)				no oder	
Interim Check:	1317	11				Has odor o.oppm	
Interim Check:	13152011					19.62 0401	
Interim Check:	121200						
Interim Check:							
Interim Check:							
Interim Check:							
Interim Check:							
Sample End:	1520	-5	27	29,39	//	Cappil	
escription of Samplin	How to		num of Tank	<del>619-2</del> 616-6	2	Laboratory: ESC	
			Rosen Norch garle		<b>√</b>	Laboratory Sample ID:  AOI 5-AA-12-2016021  Analysis Requested: TO-15, Evergreen Comprehensive	
	6	AA-12	MW-578			Additional Notes:	

AIR SAMPLE FIELD INFORMATION  Project Name: Marcus Hook AOI 5  Project Number: 213402567  Sampled by: Janny DeBoar  Sampling Date: 2/15/2017		Location ID Weather:		-AA-13 1ercast	Stantec	
Canister/Flow Contro Canister Size: Canister Serial Numbe	r:	6L 1011		canister vacuum (inHo Pre-sample measurem flow controller Shut In	nent tool: Digital gau	
Flow Controller Type (has been controller Serial N	Number:	8 5452		low controller Shut In T		
Sampling Information						
	Time	Vacuum (inHg)	Ambient (Exterior) Temperature (°F)	Barometric Pressure (inHg)	Interior Temperature (°F)	Canister Condition/Comments
Sample Start:	0808	- 30+	33 29.56 10	29.56	NA	
Interim Check:	0950	- 24.5				Moderate propane odor
Interim Check:	1016	- 22,5				11
Interim Check:	1147	- 16			X/////////////////////////////////////	No odor oppm
Interim Check:	1332	. 9,5				Moderate propare oder (oppin)
Interim Check:						
Interim Check:						
Interim Check:						
Interim Check:						
Sample End:	1456	-5	28 24-32 212	2 4.35	NA	6000
Description of Samplin		NW side of	Henres, near du	ive through		Laboratory: ESC
		Scale	Species AA-13	IN		Laboratory Sample ID:  A DIS - A A - 13 - 20170 215  Analysis Requested: TO-15, Evergreen Comprehensive List  Additional Notes:  Heavy Lattic, propaga



## INDOOR AIR QUALITY BUILDING SURVEY

This form must be compl	eted for each building involved in an indoor air investigation.
Building Name: <u>85</u>	4 Building
	De Boer Date Prepared: 1/19/2017
Preparer's Affiliation: St	antec Consulting Services, Inc.
Telephone Number: _	
OCCUPANT INFORMATIO	ON
Contact Name	Bill Gayner
Company Name	E-vergreen
Address	100 Green Street
City, State ZIP	Marcus Hook PA 19061
Home Telephone	
Office Telephone	610-859-1959
Owner Renter	Other $\varnothing$
OWNER or LANDLORD IN	FORMATION
Name (if different from Occupant)	SUMBINE SPMT
Address	
City, State ZIP	
Telephone	



# A. Building Construction

1.	Type (check all that apply):	
	□ Single Level □	Warehouse
	□ Split Level □	Strip Mall
520	□ Mobile Home □	Residential
	□ Duplex □	Commercial
	□ Triplex □	Industrial
	Office	Strip Mall
	□ Apartment Building: # of Units: _	
	Other:	
2.	. General Description of Use: Office B	wilding
Jo 3.	Year Constructed: 1985	_
4.	. Number of Floors Above GradeBel	ow Grade
5.	. Number of OccupantsChildren	AdultsTotal
	Sensitive Population Present?N	
	Description of Occupancy Office wo	i kers- constantly
6.	. Area of the Building (square feet): 900	0
7.	. Is the building insulated? 为YES □ NO	
8.	. How sealed is the building? <u>\wll</u>	
9.	. Roll-up Doors Present? (Y (N) Normally Ope	en?(Y / N)
10,	Ť.	
11,	Condition of the elevator pits (sealed, oper	nearth, etc.) <u>did</u> not observe
12,	<ol><li>General description of building construction</li></ol>	n materials:
В.	. Foundation Characteristics (check all that o	apply)
1.	. 🗆 Full basement 🗆 Crawlspace	>∞3 ab on Grade-
Ро	ost Tension Slab?	
<sub>0</sub> (	Other:	



	Were	foundation design specifications and as-built drawings for the facility obtained? (
	Was so	oil beneath the floor slab treated with lime before placing the slab? (Y / N)
	Were	fibers or additional rebar added to the concrete floor to minimize cracking? (Y / N) UNK
	Was o	vapor barrier installed under the floor slab? (Y / $\swarrow$ $\lor$ $\lor$ $\lor$
	Descri	be:
	Were	any other liners installed under the floor slab? (Y / N) $\cup$ $\cup$ $\wedge$ $\cup$
	Descri	be:
NA	2.	Basement Floor Description:   Concrete  Dirt  Wood
		□ Other:
		a) Basement Floor is: $\square$ Wet $\square$ Dry $\square$ Damp
		b) Sump present?   YES   NO Water in sump?   YES   NO
		c) Basement is:     Finished   Unfinished   Other:
		d) Depth of basement:
		e) Basement size (square footage:)
		f) Is basement sealed? $\square$ YES $\square$ NO
	Provid	e a description:
	3.	NA - Lingleum Concrete floor description:  Unsealed Painted Epoxy Coating Covered with:
<b>A</b>	4.	Foundation walls: Poured Concrete
	□ Othe	er:
OF	C. utility	Identify all potential soil gas entry points and their size (e.g., cracks, voids, pipes, ports, sumps, drain holes, etc.). Include these points on the building diagram.
	Drai E10	or drain in utility room



	-			
	,			
D.	Heating, Ventilation, and A	ir Conditioning	g (check all that apply)	
1.	Type of heating system(s):			
,	□ Hot Air Circulation		□ Heat Pump	
	□ Hot Water Radiation		□ Un-Vented Kerosene Heater	
	Steam Radiation		□ Wood Stove	
	<ul> <li>Electric Baseboard</li> </ul>		□ Other (specify):	
2.	Type of fuel used:			
🗆 Natu	ıral Gas 🛮	Electric	□ Coal	
□ Fuel	Oil	Wood	□ Solar	
□ Othe	or:			
3.	Locations of heating system	n: Exterv	un to punding	
4.	Is there air conditioning?	⊐ YES □ NO		
If YES:	□ Central Air	□ Window l	Jnits	
	Specify location:			
5.	Other types of ventilation p	oresent: X/Bath	room vents (outside intake air)	
	<ul> <li>Mechanical fans</li> </ul>			
	□ Kitchen exhaust fan, whe	ere is it vented	?	
6.	Are there air distribution du	ucts present? *	XYES - NO	
7. cold a			uct work including whether there is a duct joints:	1



8.	Is there a whole house fan? □YES ¥NO
	Is the fan operating? - YES NO
	What is the size of the fan?
8.	Temperature settings inside during sampling (note day and night temperatures).
	a. Daytime Temperature(s)
	b. Nighttime Temperature(s)70
(Note	e times if system cycles during non-occupied hours during the day.)
9. into	Estimate the average time doors and windows are open to allow fresh outside air the building. Note rooms that frequently have open windows or doors:
D.	Potential Indoor Sources of Pollution
1.	Are solvents used aYES MNO
	What types:
2.	Is the laundry room located inside the building? <b>TYES</b> ANO
3.	Has the building ever had a fire? - YES - NO When:
4.	Is there an attached garage? - YES ANO
5.	Is a vehicle normally parked in the garage? $\Box$ YES $\Box$ NO $\bigvee$ A
	Gasoline powered equipment or storage canisters in garage? $_{\Box}$ YES $_{\Box}$ NO $_{\Box}$
6,	Is there a kerosene heater present? □YES → XIO
7.	ls there a workshop, hobby or craft area in the building? □YES 전10
com	An inventory of all products used or stored in the building should be performed. products that contain volatile organic compounds or chemicals similar to the target bounds should be listed. The attached <b>Products Inventory Form</b> (see page 11) d be used for this purpose.



9.	Is the stove: 🗆 Gas 🗆 Electric	Is the oven: • Gas • Electric	5 ð
10.	Is there an automatic dishwashe	er? □YES ØNO	
11.	Do people smokę in the building	g? □ YES >XNO	
	How many smokers? How	w long since they last smoked inside?	
12.	Has the building ever been fumi	igated or sprayed for pests? □YES □NO ∪ N 🖔	
If YES	5, give date, type and location of tr	reatment:	
E.	Water and Sewage		
1.	Source of Water (check approp	priate response)	
	Pùblic Water	□Dug Well	
	□Drilled Well	□Other (specify):	
	□Driven Well		
2.	Water Well Specifications 1	VA	
	Well Diameter		
	Well Depth		
	Depth to Bedrock		
	Feet of Casing		
	Grouted or Un-grouted	<del></del>	
	Type of Storage Tank		
	Size of Storage Tank		



Describe type(s) of Treatment:		
3. Water Quality		
Taste and/or odor problems with water? $\ \square$ YES $\ \square$ NO		
If YES, describe:		
Is the water chlorinated, brominated, or ozonated? $\ \square$ YES $\ \square$ NO		
How long has the taste and/or odor problem been present?		
4. Sewage Disposal		
Aublic Sewer		
□ Septic Tank		
□ Leach Field		
□ Other (specify):		
Distance from well to septic system:		
Type of septic tank additives:		



### F. Plan View

Sketch each floor and if applicable, indicate air sampling locations, possible indoor air pollution sources, preferential pathways and field instrument readings.

See attached



G. Potential Outdoor Sources of Pollution
Is there heavy traffic in the area ★YES □ NO
Stationary nearby sources (gas stations, emission stacks, etc - YES - NO
Describe Heavy truck traffic - AST, pipelines, railroad,
Contaminant Site (1000' radius)∠®YES □ NO
Describe former refinery MMIC
Draw a diagram of the area surrounding the building being sampled. If applicable, provide information on the spill locations (if known), potential air contamination sources (industries, service stations, repair shops, retail shops, landfills, etc.), outdoor air sampling locations, and fie instrument readings.
Also, on the diagram, indicate barometric pressure, weather conditions, ambient and indoor temperatures, compass direction, wind direction and speed during sampling, the locations of the water wells, septic systems, and utility corridors if applicable, and a statement to help location the site on a topographical map.
H. Date of last painting or staining of surfaces at the facility:
Location where painting or staining occurred:
I. Date of last carpet/flooring replacement:
Location(s):
·
Was glue used to attach carpeting to floor slab?
I. Describe Process/Manufacturing/Storage Areas:
NA



	¥
J.	Existing Soil Vapor Control Devices (pipes, vents, blowers, HVAC Add-ons)
Desc	cribe Observations, Locations:
K.	Existing sub slab depressurization (ie radon) system in place?   YES   NO   NA
	Is the system - Active - Passive Operational - YES - NO
L.	Wall Surfaces (painted, textured) Painted
AA	Noted Interior Sinks for VOCs Analysis in helps



Comments:\_

### PRODUCTS INVENTORY FORM

Occupant of Building: Vaylou			
Address: 854 Building	ns		
Field Investigator: Janny D			
Product Description  (Commercial name, dispenser type, container size, manufacturer)	VOCs Contained in Product	Field Instrument Reading	Removed for testing?
McCall Glass Cleans			
Mc Call Surfacide True Kleen Winterinse Strong odor of cleaner			
strong oder of cleaner	s on 2nd flow		
-			
			5



## INDOOR AIR QUALITY BUILDING SURVEY

inis form must be compi	etea for each building involved in an indoor dir investigation,					
Building Name: <u>Bra</u>	5 Kem					
Preparer's Name: 14n	ny DeBoe Date Prepared: 1/19/17					
Preparer's Affiliation: <u>St</u>	antec Consulting Services, Inc.					
Telephone Number:	Felephone Number: 610-209-2511  Bill Hastings					
OCCUPANT INFORMATIO	N					
Contact Name	Bill Hastings					
Company Name	Braskem					
Address						
City, State ZIP						
Home Telephone						
Office Telephone						
OwnerRenter	_Other					
OWNER or LANDLORD IN	FORMATION					
Name (if different from						
Occupant)	SPMT					
Address						
City, State ZIP						
Telephone	:					

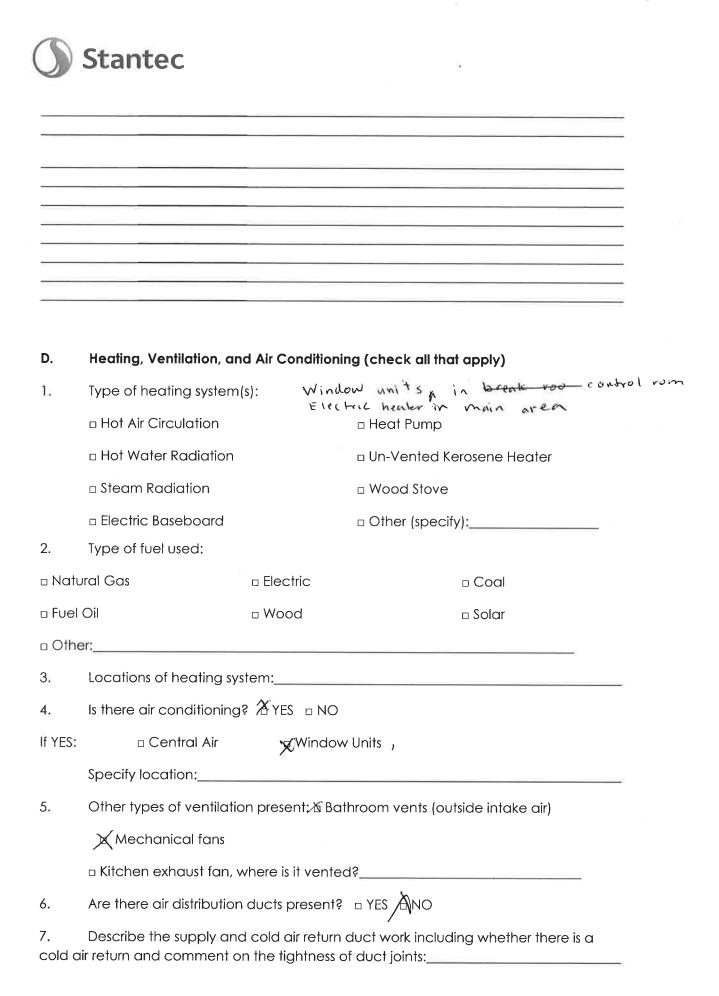


# A. Building Construction

T	ype (check all that apply):			
	□ Single Level	∠ Warehouse		
	□ Split Level	□ Strip Mall		
	□ Mobile Home	□ Residential		
	□ Duplex	<ul> <li>Commercial</li> </ul>		
	□ Triplex	<ul> <li>Industrial</li> </ul>		
	Office	□ Strip Mall		
	□ Apartment Building: # of t	Jnits:		
	□ Other:	As larg		
2.	General Description of Use: <u>NSWA</u>	ly just one person people		
3.	Year Constructed: 1989			
4.	Number of Floors Above Grade			
5.	Number of OccupantsChild	lrenAdultsTotal		
	Sensitive Population Present?	No		
	Description of Occupancy 2M	his a day in control room		
6.	Area of the Building (square feet):_			
7.	Is the building insulated? ≥ TES □ N	10		
8,	How sealed is the building? いい	sealed		
9.	Roll-up Doors Present? (Y) N) Norm	ally Open?(Y /N)		
10.	Number of elevators in the building:	N		
11.	Condition of the elevator pits (seale	Condition of the elevator pits (sealed, open earth, etc.)		
12.	General description of building con iswalated metal shoet	struction materials: Concrete 1st story		
В.	Foundation Characteristics (check	all that apply)		
1.	□ Full basement □ Crawlspace	e Stab on Grade-		
Post	Tension Slab?			



Were foundation design specifications and as-built drawings for the facility obtained? (Y
Was soil beneath the floor slab treated with lime before placing the slab? (Y / N) $\vee$ $\vee$ $\vee$ $\vee$
Were fibers or additional rebar added to the concrete floor to minimize cracking? (Y / N) $V^{N}$
Was a vapor barrier installed under the floor slab? (Y / N) $\vee$ $\vee$ $\vee$
Describe:
Were any other liners installed under the floor slab? (Y / N) $VN$
Describe:
2. Basement Floor Description:   Concrete  Dirt  Wood  A
□ Other:
a) 'Basement Floor is: 🗆 Wet 🗆 Dry 🗆 Damp
b) Sump present? - YES - NO Water in sump? - YES - NO
c) Basement is: 🗆 Finished 🗅 Unfinished 🗓 Other:
d) Depth of basement:
e) Basement size (square footage:)
f) Is basement sealed?   YES   NO
Provide a description:
3. Concrete floor description:   Unsealed Painted Epoxy Coating  Covered with:
4. Foundation walls: Poured Concrete □ Block □Stone □ Wood
Other:
C. Identify all potential soil gas entry points and their size (e.g., cracks, voids, pipes, utility ports, sumps, drain holes, etc.). Include these points on the building diagram.
sink mat oppm





8.	Is there a whole house fan? AYES DNO  Is the fan operating? DYES DNO DPICALES IN Symmol  What is the size of the fan?  3'
8.	Temperature settings inside during sampling (note day and night temperatures).  a. Daytime Temperature(s) 680  b. Nighttime Temperature(s)
(Note	times if system cycles during non-occupied hours during the day.)
9. into th	Estimate the average time doors and windows are open to allow fresh outside air building. Note rooms that frequently have open windows or doors:
D. 1.	Potential Indoor Sources of Pollution  Are solvents used a YES and None opserved  What types:
2.	Is the laundry room located inside the building? AYES ¬NO
3.	Has the building ever had a fire? - YES NO When:
4.	Is there an attached garage? → YES □ NO
5.	Is a vehicle normally parked in the garage?   YES   YO
	Gasoline powered equipment or storage canisters in garage? □YES XNO
6.	Is there a kerosene heater present?
7.	Is there a workshop, hobby or craft area in the building?
	An inventory of all products used or stored in the building should be performed. roducts that contain volatile organic compounds or chemicals similar to the target ounds should be listed. The attached <b>Products Inventory Form</b> (see page 11)

should be used for this purpose.



9.	Is the stove: 🗆 Gas 🗆 Electric	Is the oven: $\Box$ Gas $\Box$ Electric $oldsymbol{\mathcal{N}}$	4)			
10.	Is there an automatic dishwasher? 🗆 YES 💢 NO					
11.	Do people smoke in the building?	Do people smoke in the building? - YES NO				
	How many smokers? How lo	ng since they last smoked inside?				
12.	Has the building ever been fumigate	ed or sprayed for pests? □YES XNO				
If YES	, give date, type and location of treat	ment: Traps - but no spraying				
E.	Water and Sewage					
	Water and Sewage					
l.	Source of Water (check appropriate	e response)				
	光ublic Water	□Dug Well				
	□Drilled Well	Other (specify):				
	□Driven Well					
2.	Water Well Specifications					
	Well Diameter	_				
	Well Depth	_				
	Depth to Bedrock	_				
	Feet of Casing	_				
	Grouted or Un-grouted	<u>_</u>				
	Type of Storage Tank	_				
	Size of Storage Tank					



Describe type(s) of Treatment:			
3. Water Quality			
Taste and/or odor problems with water?   YES   NO			
If YES, describe:			
Is the water chlorinated, brominated, or ozonated? $\ \square$ YES $\ \square$ NO			
How long has the taste and/or odor problem been present?			
4. Sewage Disposal			
Public Sewer			
□ Septic Tank			
□ Leach Field			
□ Other (specify):			
Distance from well to septic system;			
Type of sentic tank additives:			



#### F. Plan View

Sketch each floor and if applicable, indicate air sampling locations, possible indoor air pollution sources, preferential pathways and field instrument readings.

See attached



G.	Potential Outdoor Sources of Pollution			
Is ther	s there heavy traffic in the area⁄£ YES □ NO			
Statio	nary nearby sources (gas stations, emission stacks, etc 🗆 YES 🗀 NO			
Descri	be			
Conto	aminant Site (1000' radius) a YES a NO			
	ibe MMI			
	De_ MAT			
inform servic	a diagram of the area surrounding the building being sampled. If applicable, provide nation on the spill locations (if known), potential air contamination sources (industries, e stations, repair shops, retail shops, landfills, etc.), outdoor air sampling locations, and field ment readings.			
tempo	on the diagram, indicate barometric pressure, weather conditions, ambient and indoor eratures, compass direction, wind direction and speed during sampling, the locations of ater wells, septic systems, and utility corridors if applicable, and a statement to help locate e on a topographical map.			
Н.	Date of last painting or staining of surfaces at the facility: Painting in rew mainta			
	Location where painting or staining occurred:			
t.	Date of last carpet/flooring replacement: 3016			
	Location(s): New mantanearear are			
	Cenclosed area West			
	side of building			
	Was glue used to attach carpeting to floor slab?			
I.	Describe Process/Manufacturing/Storage Areas:			
wb.	mical Storage under stairs near North side of ilding. Of Large open area used to be instrument niv, now is mostly unused. On raise occasion, nicles are parked inside (ex winter Storms)			



J.	Existing Soil Vapor Control Devices (pipes, vents, blowers, HVAC Add-ons)
Desc	cribe Observations, Locations:
K.	Existing sub slab depressurization (ie radon) system in place?   YES   NO V N N
	Is the system - Active - Passive Operational - YES - NO
	*
L.	Wall Surfaces (painted) textured)
M	Noted Interior Sinks for VOCs 200 M



## PRODUCTS INVENTORY FORM

Occupant of Building: Braskem	
Address:	<del>.</del>
Field Investigator: Jenny DeBoer	Date:

Product Description	VOCs Contained in	Field Instrument	Removed for
	Product	Reading	testing?
(Commercial name, dispenser			
type, container size,			
manufacturer)			
xtreme	/		
Blue Windshield washed			
Go jo antimicrobial lohon sa	ρ		
Roto Zoil			
Sea Foam Peep			
Creep Lubricant Loctite SI 5015 BL			
10Ct, 46 ST 2012 BC			
Dive RIV Adnesive			
Blue RTV Silicone Loctite SI 58 Bliz High Performand RTV Sherwin Williams			
Sherwin Williams			
Primor			
Pro oreen Low voc			
Mapei Eco 711			
Clear This Sovered Adhaile			
Sat-T-eza antiscize			
CRC Food Grade			
Sili cono			
Tomacat Gel Mouse			
Attractant			
-			

Comments:		



### INDOOR AIR QUALITY BUILDING SURVEY

This form must be completed for each building involved in an indoor air investigation.					
Building Name: Electric Shop (502 - part of Mechanical Cent					(enter
Preparer's Name: <u>Jen</u>	ny DeBoar	Date Prepared:	/19/17	\$1	
Preparer's Affiliation:	tantec Consulting S	ervices, Inc.			
Telephone Number:	610-209-2 1thor	511			
	<b>A</b> N				
OCCUPANT INFORMATION	ON				
Contact Name	Charlie	Gunther			
Company Name	SPMT				
Address	100 Green	. 5+			
City, State ZIP	Marcus	Moole PA		io.	
Home Telephone					
Office Telephone					
Owner Renter Other					
OWNER or LANDLORD INFORMATION					
Name (if different from					
Occupant)		_			
Address					
City, State ZIP					
Telephone					

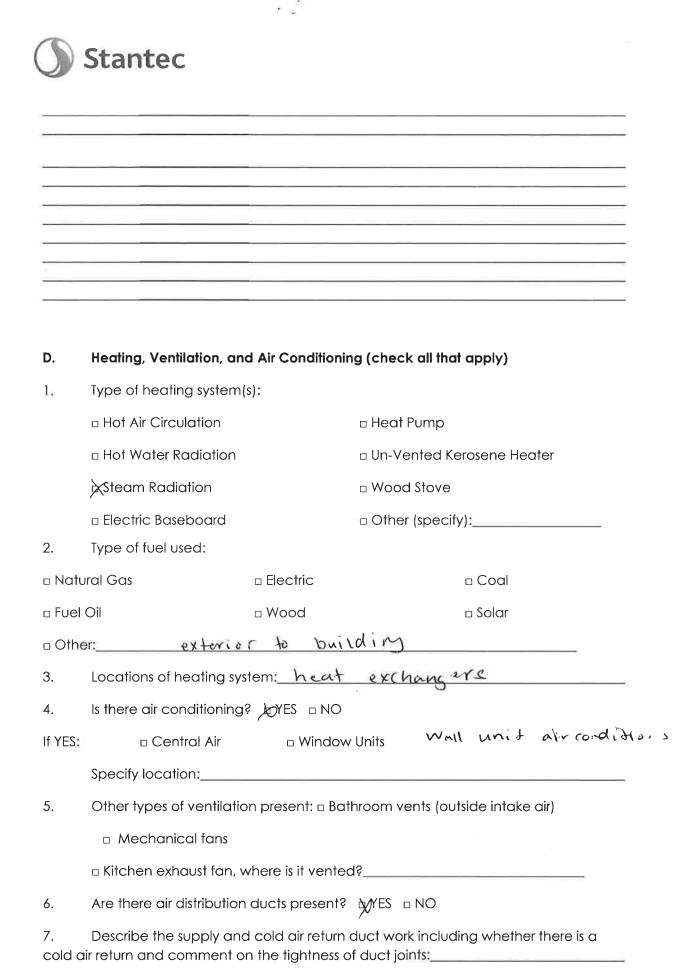


# A. Building Construction

Ту	Type (check all that apply):		
	□ Single Level		
	□ Split Level □ Strip Mall		
	□ Mobile Home □ Residential		
	□ Duplex □ Commercial		
	□ Triplex □ Industrial		
	doffice □ Strip Mall		
	□ Apartment Building: # of Units:		
	Other:		
2.	General Description of Use: Storage / workshop for electric equif		
3.	Year Constructed: UNIC		
4.	Number of Floors Above GradeBelow Grade		
5.	Number of OccupantsChildrenAdultsTotal		
	Sensitive Population Present?No		
	Description of Occupancy daily		
6.	Area of the Building (square feet): Office / Warehouse / Shor		
7.	Is the building insulated? ≱YES □ NO		
8.	How sealed is the building? well sealed		
9.	Roll-up Doors Present? (Y Normally Open (Y N)		
10.	Number of elevators in the building: $N/A$		
11.			
12.	2. General description of building construction materials: Brick extense walls/k	block induriur	
В.	Foundation Characteristics (check all that apply) ${\cal N}{\cal A}$		
1.	□ Full basement □ Crawlspace ∑Slab on Grade-		
Post	ost Tension Slab?		
□ Oth	Other:		



Were foundation design specifications and as-built drawings for the facility obtained? (Y	
Was soil beneath the floor slab treated with lime before placing the slab? (Y / N) $UN$	
Were fibers or additional rebar added to the concrete floor to minimize cracking? (Y / N)	UNT
Was a vapor barrier installed under the floor slab? (Y / N) $_{ m V}$ $_{ m V}$ $_{ m V}$	
Describe:	
Were any other liners installed under the floor slab? (Y / N) $\cup$ N $\cup$	
Describe:	٨
2. Basement Floor Description: - Concrete - Dirt - Wood	/+
o Other:	
a) Basement Floor is: $\square$ Wet $\square$ Dry $\square$ Damp	
b) Sump present? _ YES _ NO Water in sump? _YES _NO	
c) Basement is: - Finished - Unfinished - Other:	
d) Depth of basement:	
e) Basement size (square footage:)	
f) Is basement sealed? 🗆 YES 🗆 NO	
Provide a description:	
3. Concrete floor description; XUnsealed Painted XEpoxy Coating Covered with:	
4. Foundation walls: □ Poured Concrete Block □Stone □ Wood	
Other:	
C. Identify all potential soil gas entry points and their size (e.g., cracks, voids, pipes,	
utility ports, sumps, drain holes, etc.). Include these points on the building diagram.	
None identified	





8.	Is there a whole house fan? ÆYES □NO			
	Is the fan operating? I YES XNO don't function			
	What is the size of the fan?			
8.	Temperature settings inside during sampling (note day and night temperatures),			
	a. Daytime Temperature(s) 6 5 - 7 0			
	b. Nighttime Temperature(s)			
(Note	times if system cycles during non-occupied hours during the day.)			
9. into th	Estimate the average time doors and windows are open to allow fresh outside air e building. Note rooms that frequently have open windows or doors:			
D.	Potential Indoor Sources of Pollution			
1.	Are solvents used ₩ES □ NO			
	What types: see chemical inventory			
0	Le the a law we do a reason to a state of institute than the till institute of the State of the			
2.	Is the laundry room located inside the building? TYES ANO			
3.	Has the building ever had a fire?   YES XNO When:			
4.	Is there an attached garage? 🗡 YES 🛮 NO			
5.	Is a vehicle normally parked in the garage?    YES   YO			
	Gasoline powered equipment or storage canisters in garage? ¬YES ¬NO			
6.	Is there a kerosene heater present? □YES ŽNO			
7.	Is there a workshop, hobby or craft area in the building? TYES DNO			
	An inventory of all products used or stored in the building should be performed. roducts that contain volatile organic compounds or chemicals similar to the target ounds should be listed. The attached <b>Products Inventory Form</b> (see page 11)			

should be used for this purpose.



9.	Is the stove: 🛮 Gas 🗡 Electric	Is the oven: 🗆 Gas 🖟 Electric			
10.	Is there an automatic dishwasher? 🗆 YES 🥻 NO				
11.	Do people smoke in the building	g? - YES XNO			
	How many smokers? Ho	w long since they last smoked inside?			
12.	Has the building ever been fum	igated or sprayed for pests? □YES 💥 O			
If YES	S, give date, type and location of t	reatment:			
÷					
E.	Water and Sewage				
1.	priate response)				
	XPublic Water	□Dug Well			
	Drilled Well	□Other (specify):			
	□Driven Well				
2.	Water Well Specifications				
	Well Diameter				
	Well Depth	<del></del> ;			
	Depth to Bedrock				
	Feet of Casing				
	Grouted or Un-grouted				
	Type of Storage Tank				
	Size of Storage Tank				



Describe type(s) of Treatment:				
3. Water Quality				
Taste and/or odor problems with water? $\square$ YES $\square$ NO				
If YES, describe:				
Is the water chlorinated, brominated, or ozonated? $\ \square$ YES $\ \square$ NO				
How long has the taste and/or odor problem been present?				
4. Sewage Disposal				
Public Sewer				
□ Septic Tank				
□ Leach Field				
□ Other (specify):				
Distance from well to septic system:				
Type of septic tank additives:				



### F. Plan View

Sketch each floor and if applicable, indicate air sampling locations, possible indoor air pollution sources, preferential pathways and field instrument readings.



G.	Potential Outdoor Sources of Pollution
Is the	re heavy traffic in the area XYES 🗆 NO
	nary nearby sources (gas stations, emission stacks, etc 🗆 YES 🗆 NO
Desc	ibe
Cont	aminant Site (1000' radius) = YES = NO
Desc	ibe MHIC
inform service	a diagram of the area surrounding the building being sampled. If applicable, provide nation on the spill locations (if known), potential air contamination sources (industries, se stations, repair shops, retail shops, landfills, etc.), outdoor air sampling locations, and fiement readings.
temp	on the diagram, indicate barometric pressure, weather conditions, ambient and indoor eratures, compass direction, wind direction and speed during sampling, the locations of rater wells, septic systems, and utility corridors if applicable, and a statement to help locate on a topographical map.
н.	Date of last painting or staining of surfaces at the facility:
	Location where painting or staining occurred:
i.	Date of last carpet/flooring replacement:
	Location(s):
	Was glue used to attach carpeting to floor slab?
1.	Describe Process/Manufacturing/Storage Areas:
-	



J.	Existing Soil Vapor Control Devices (pipes, vents, blowers, HVAC Add-ons)
Desc	ribe Observations, Locations:
K.	Existing sub slab depressurization (ie radon) system in place?   YES   NO
	Is the system - Active - Passive Operational - YES - NO
L.	Wall Surfaces (painted, textured)
M.	Noted Interior Sinks for VOCs



## PRODUCTS INVENTORY FORM

Occupant of Building:	
Address:	
Field Investigator:	Date:

Product Description  (Commercial name, dispenser	VOCs Contained in Product	Field Instrument Reading	Removed for testing?
type, container size, manufacturer)			
,			
Cable Clean Pegreaser			
Stor & Lubr corrosion			
Lanibitor CRC Lectra Clean Heavy Duty electrial elpan Preserve Gobbler			
Preserve Gobbler Protection Towels Clc cutting oil			
Hary Duty Degreaser			
MUD (RC CRC Contact Cleaner			
2000 Loctife chisel Gasket			
Remover (RC Industrial			
Gusket remove			
Preserve it Ratters			
CRC Buttery Terminal			
Loctile aniso Paint Stripps			
Various paints - Kiylon			
MKG Steel Kut			

Comments:				

```
Lith - O - Grease Lithium Greast
     Sale - Slip Spray Epoxy Safety Coaling ~16.7
     McCalls Hospital Disinfecturt
     Duyor A-104 Red gago Fluid
     Spray Penetran + 611 Safety Clean
     Als Break Away
     Electro Shield
      Elyptal 1201-A Red Insulation onamel
     Etrectro Sheild spray on clear flexible Plastic like
           protective coading
     Aero Kail
     CRC Silicone Lubrican
     Als slick Silicon spray
     CRC Ice - Off Windshield Spray De Joer
     13TS-99 Battery Terminal Scalor
         Skin barrier deam
      Benzomatic Map Pro
     Bee Bopper Bre and Hornet Killor
      MC(alls Glass & Plexiglass cleans
Somern
       Mc Calls Glass Clean
Storago-
       Mc(alls Surfacide
       McCalls Complete Bowl Bahnroom cleaner
smell
       Mccalls Machineless cold Warter Speed Strippar
       Anstins A-1 Bleach
       Flexi-Sheen Rubber Wax & Conditioner
        Mc Calls Power drang
```



## INDOOR AIR QUALITY BUILDING SURVEY

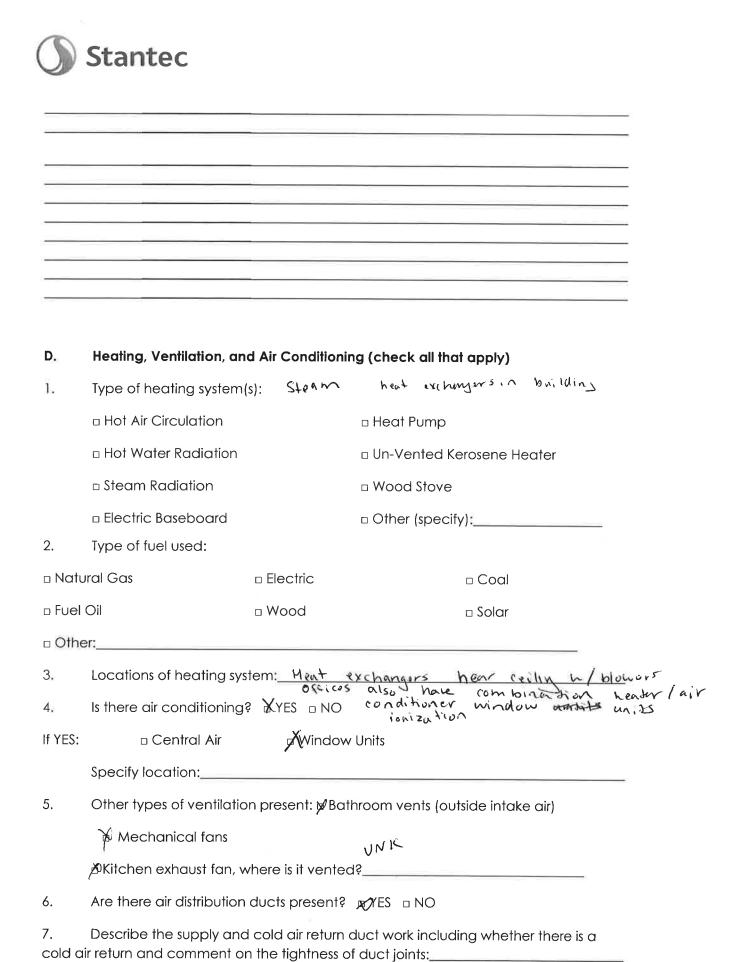
This form must be completed for each building involved in an indoor air investigation.				
Building Name: MecY	ranical Center			
Preparer's Name: Jene	Date Prepared: 1/19/17			
Preparer's Affiliation: <u>St</u>	antec Consulting Services, Inc.			
Telephone Number:	610-209-2511 thavise cunther - Ele			
Jimmy Shoals	- Lish vowl			
OCCUPANT INFORMATIO	)N			
Contact Name	Mike Griffith			
Company Name	SPMT			
Address	100 Green St			
City, State ZIP	Marcus Mook PA			
Home Telephone				
Office Telephone				
OwnerRenter	_Other			
OWNER or LANDLORD IN	FORMATION			
Name (if different from				
Occupant)				
Address				
City, State ZIP				
Telephone				



	A. Building Construction		
	Type (check all that apply):	g.	
	Single Level		
	□ Split Level	Warehouse	
	□ Mobile Home	□ Strip Mall	
	<ul> <li>Duplex</li> </ul>	□ Residential	
	□ Triplex	□ Commercial	
	□ Office	□ Industrial	
	Apartment Building: #	□ Strip Mall	
	□ Other:	of Units:	
2	2. General Description of Use: Mac)  3. Year Construct		
3	- Constructed		
4.		in some areas	
5.	Number of Occupants	Below Grade	
	Number of OccupantsChi	Idren_ISAdultsTotal	
6.	Area of the Building (square feet):_	Chiefs - Eish bours e space, mechanics use, salelitte	
7.	Is the building insulated? *(YES = N	sale little	rafetori
8.	How sealed is the building	0	
9.	How sealed is the building? Not	well sealed	
10.	Roll-up Doors Present? (Y/N) Normal Number of elevators in the building:	11.	
11.	Condition of the class t	N	
12.	Condition of the elevator pits (sealed, General description of but it	open earth, etc.)	
	W/ concrete floor	Oction materials: Black	
В.	Foundation Characteristics (check all the Full basement	Malls	
	U. Cawlen a -	nat apply) NA	
Post Ten	sion Slab?	🗆 Slab on Grade-	
Other:			



Were	found	ation design specifications and as-built drawings for the facility obtained? (Y
Was :	soil ben	eath the floor slab treated with lime before placing the slab? (Y / N) UNK
Were	fibers o	or additional rebar added to the concrete floor to minimize cracking? (Y / N) $$ $$ $$ $$ $$ $$ $$ $$ $$ $$
Was	a vapoi	barrier installed under the floor slab? (Y / N) $\vee$ $\vee$ $\vee$
Desc	ribe:	
Were	any ot	her liners installed under the floor slab? (Y / N) $$
Desc	ribe:	
2.	Base	ment Floor Description: $\square$ Concrete $\square$ Dirt $\square$ Wood $\bigwedge \! \bigwedge$
	o Oth	ner:
	a)	Basement Floor is:
	b)	Sump present? □ YES □ NO Water in sump? □YES □NO
	c)	Basement is:     Finished   Unfinished   Other:
	d)	Depth of basement:
	e)	Basement size (square footage:)
	f)	Is basement sealed?   YES   NO
Provid	de a de	scription:
		9——————————————————————————————————————
3.		crete floor description: Unsealed 🗆 Painted 🗆 Epoxy Coating vered with:
4.	Foun	dation walls: 🗆 Poured Concrete 💢 Block 🗆 Stone 🗆 Wood
o Oth	er:	
C. utility		ify all potential soil gas entry points and their size (e.g., cracks, voids, pipes, umps, drain holes, etc.). Include these points on the building diagram.
	sec	drawing





8.	Is there a whole house fan? AYES ONO Exhaust fans	
	Is the fan operating? = YES XNO Rarely used - only used for  What is the size of the fan?	ventilation
	What is the size of the fan?	•2
8.	Temperature settings inside during sampling (note day and night temperatures).	
	a. Daytime Temperature(s) 70° in Offices, cooler in sin	0/2
	b. Nighttime Temperature(s) same as day	
(Note	times if system cycles during non-occupied hours during the day.)	
	Estimate the average time doors and windows are open to allow fresh outside air e building. Note rooms that frequently have open windows or doors: <u>25% of</u>	
D.	Potential Indoor Sources of Pollution	
1.	Are solvents used TXES □ NO	
	What types: See inventory	
2.	Is the laundry room located inside the building?	
3.	Has the building ever had a fire? - YES XNO When:	
4.	Is there an attached garage? YES 🗆 NO	Nobody sils
5.	Is a vehicle normally parked in the garage? DES DNO	in gaings
	Gasoline powered equipment or storage canisters in garage? →YES □NO	
6.	Is there a kerosene heater present? □YES →	
7.	Is there a workshop, hobby or craft area in the building? $\nearrow$ YES $\Box$ NO	
	An inventory of all products used or stored in the building should be performed. roducts that contain volatile organic compounds or chemicals similar to the target ounds should be listed. The attached <b>Products Inventory Form</b> (see page 11)	

should be used for this purpose.



9.	Is the stove: 🗆 Gas 🍎 Electric	Is the oven: 🗆 Gas 🔀 lectric
10.	Is there an automatic dishwasher? $\Box$ YE	s XV NO
11.	Do people smoke in the building?	₹NO
	How many smokers? How long sin	nce they last smoked inside?
12.	Has the building ever been fumigated or	sprayed for pests? ⊀YES □NO
If YES,	give date, type and location of treatment	Terminex contract - mich
	onthly treating - 1/20/1-	7 - Whole Sacility
E.	Water and Sewage	
1.	Source of Water (check appropriate resp	oonse)
	<b>Depublic</b> Water	□Dug Well
	□Drilled Well	Other (specify):
	Driven Well	
2.	Water Well Specifications	
	Well Diameter	
	Well Depth	
	Depth to Bedrock	
	Feet of Casing	
	Grouted or Un-grouted	
	Type of Storage Tank	
	Size of Storage Tank	



Describe type(s) of Treatment:				
3. Water Quality				
Taste and/or odor problems with water?   YES   NO				
If YES, describe:				
Is the water chlorinated, brominated, or ozonated?   YES   NO				
How long has the taste and/or odor problem been present?				
4. Sewage Disposal				
∌♥ublic Sewer				
□ Septic Tank				
□ Leach Field				
□ Other (specify):				
Distance from well to septic system:				
Type of sentic tank additives:				



### F. Plan View

Sketch each floor and if applicable, indicate air sampling locations, possible indoor air pollution sources, preferential pathways and field instrument readings.

see attached



G.	Potential Outdoor Sources of Pollution
Is the	re heavy traffic in the area $lpha$ YES $_{\square}$ NO
Static	onary nearby sources (gas stations, emission stacks, etc 🗆 YES 🗆 NO
Descr	ribe
Conto	aminant Site (1000' radius) & YES 🗆 NO
Descr	ribeMHIC
inforn servic	a diagram of the area surrounding the building being sampled. If applicable, provide nation on the spill locations (if known), potential air contamination sources (industries, se stations, repair shops, retail shops, landfills, etc.), outdoor air sampling locations, and field ment readings.
temp	on the diagram, indicate barometric pressure, weather conditions, ambient and indoor eratures, compass direction, wind direction and speed during sampling, the locations of vater wells, septic systems, and utility corridors if applicable, and a statement to help locate te on a topographical map.
Н.	Date of last painting or staining of surfaces at the facility: <u>UNIC - das not appear</u>
	Location where painting or staining occurred:
l.	Date of last carpet/flooring replacement: UNIC - does not appear recent
	Location(s):
	Was glue used to attach carpeting to floor slab?
ı.	Describe Process/Manufacturing/Storage Areas:
Gar	everal other works aras (plumbing, pipe snop, garage) rage is still used, but separated from rest of building (Big 199) thining equipmen is still present in Bling 520 area, t unused. Drums of various lubricating oils are



# are still stored in Blings32 area South of fish boul, some welding is conducted in eastern part of building

<b>J.</b> Desc	Existing Soil Vapor Control Devices (pipes, vents, blowers, HVAC Add-ons)  cribe Observations, Locations:	
K.	Existing sub slab depressurization (ie radon) system in place?   NO UNIC  Is the system  Active Passive Operational PES NO	
L.	Wall Surfaces (painted, textured) <u>varioงง</u>	
M.	Noted Interior Sinks for VOCssee drawing	



I	P	R	O	D	Ш	IC1	27	IN	J١	/F	N)	$\mathbf{O}$	R١	/	FO	R/	N
ı		м	$\sim$	$\boldsymbol{\nu}$	·	$\sim$	ı.	- 111	41	<i>1</i> L		$\sim$	1		-	1/1	Af.

Occupant of Building: <u> Sanow</u>	hogistics
Address:	
Field Investigator: Jenny De Boor	Date: 1/19/17

Product Description  (Commercial name, dispenser type, container size, manufacturer)	VOCs Contained in Product	Field Instrument Reading	Removed for testing?
Mc (ulls Fresh Breeze Mc (alls Power Orans	_		
Shine -em -np Stain less steel? Mesal Polish			
Comet Propare-small			
Propylene Glycol Formula Shell 505 20W - 50			
Shell Turix			
Royal purple High Personned Syn Film 6T Shell Omala SH GX 220 Shell Barrior Fluid			
Gly Kool Red PG			

Comments:

Numerous SS gallon drums of lubricating oil in shop area

Peak Antiwear Mydraulic Fluid

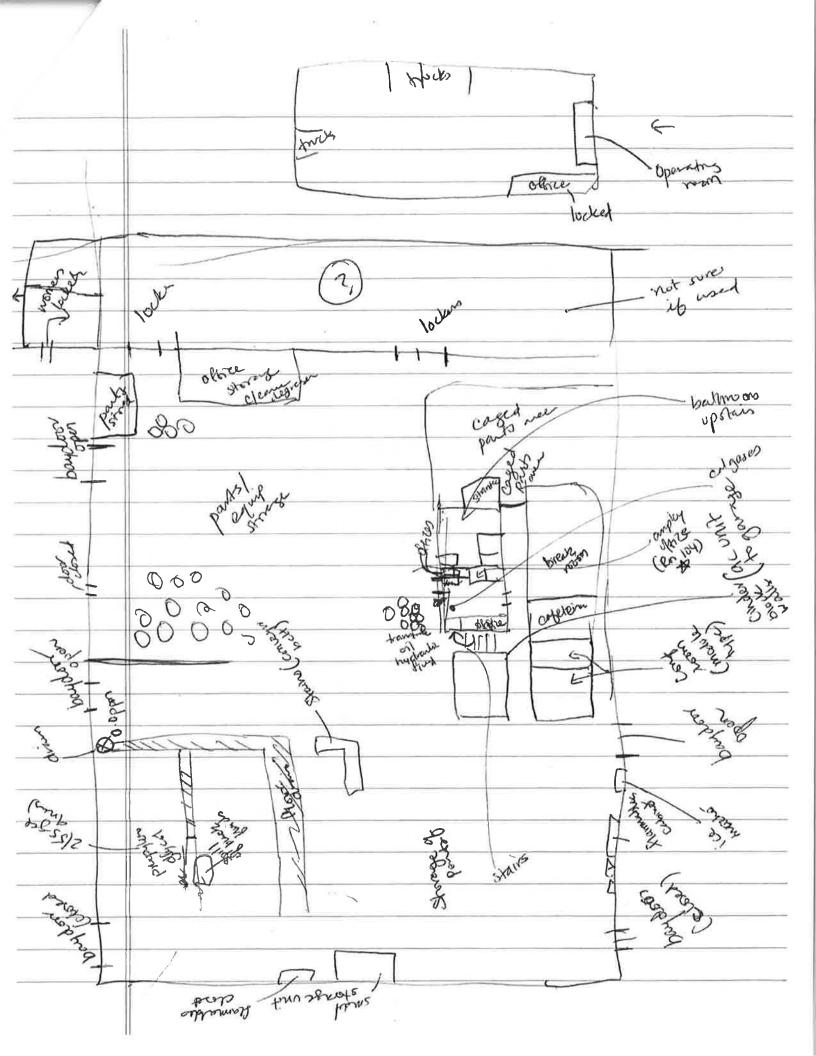
Snell Corena 54.P 100

Snell TURBO 0:1 T68, T36

N-Propyl Alcohol

Ethylene Glycol

Used 0:1





# INDOOR AIR QUALITY BUILDING SURVEY

This form must be completed for each building involved in an indoor air investigation.						
Building Name: No. 3 Scale House						
Preparer's Name: <u>Jeny</u>	Date Prepared: 1/19/17					
Preparer's Affiliation: St	antec Consulting Services, Inc.					
Telephone Number:	610-209-2511					
OCCUPANT INFORMATIO	ON .					
Contact Name	SPMT					
Company Name	SPMT					
Address	100 Green Street					
City, State ZIP	Marcus Hook PA					
Home Telephone						
Office Telephone						
Owner Renter	Other					
OWNER or LANDLORD IN	FORMATION					
Name (if different from						
Occupant)	3					
Address						
City, State ZIP	City, State ZIP					
Telephone						



# A. Building Construction

	Type (check all that apply):			
	Single Level    Warehouse			
	□ Split Level □ Strip Mall			
	□ Mobile Home □ Residential			
	□ Duplex □ Commercial			
	□ Triplex □ Industrial			
	□ Office □ Strip Mall			
	□ Apartment Building: # of Units;			
	□ Other:			
2.	General Description of Use: Scale Nous 9			
3.	Year Constructed: 1968			
4.	Number of Floors Above GradeBelow Grade			
5.	Number of OccupantsChildrenAdultsTotal			
	Sensitive Population Present?			
	Description of Occupancy 34 hrs/day			
6.	Area of the Building (square feet):			
7.	Is the building insulated? XES 🗆 NO			
8.	How sealed is the building? Well			
9.	Roll-up Doors Present? (Y / N) Normally Open?(Y / N)			
10.	Number of elevators in the building: $NA$			
11.	Condition of the elevator pits (sealed, open earth, etc.) NA			
12.	-			
В.	Foundation Characteristics (check all that apply)			
1.	□ Full basement □ Crawlspace □ Slab on Grade-			
Ро	st Tension Slab?			
<sub>-</sub> (	Other:			



Were f / N)	oundat	on design specifications and as-built drawings for the facility obtained? (Y)
Was so	oil bene	ath the floor slab treated with lime before placing the slab? (Y / N) $$ V $$ $$ $$ $$ $$
Were f	ibers or	additional rebar added to the concrete floor to minimize cracking? (Y / N) $$ $$ $$ $$ $$ $$ $$ $$ $$ $$
Was a	vapor b	parrier installed under the floor slab? (Y / N)
Descrik	oe:	
Were c	any othe	er liners installed under the floor slab? (Y / N) UN K
Describ	oe:	
2.	Basem	ent Floor Description: 🗆 Concrete 🗆 Dirt 🗆 Wood 📈 🗛
	□ Othe	r:
	a)	Basement Floor is:
	b)	Sump present? □ YES □ NO Water in sump? □YES □NO
	c)	Basement is:     Finished   Unfinished   Other:
	d)	Depth of basement:
	e)	Basement size (square footage:)
	f)	Is basement sealed? □ YES □ NO
Provide	e a desc	cription:
3.		ete floor description: Unsealed Definited Depoxy Coating red with: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
4.	Founda	ation walls: - Poured Concrete Stone - Wood
o Othe	r:	
	orts, sui	all potential soil gas entry points and their size (e.g., cracks, voids, pipes, mps, drain holes, etc.). Include these points on the building diagram.
		and the state of t



	<u> </u>					
D.	Heating, Ventilation, and Air Conditi	oning (check all that apply)				
1.	Type of heating system(s):					
	□ Hot Air Circulation	□ Heat Pump				
	□ Hot Water Radiation	□ Un-Vented Kerosene Heater				
	★Steam Radiation	□ Wood Stove				
	□ Electric Baseboard	Other (specify):				
2.	Type of fuel used:					
a Natu	ural Gas 🗆 Electric	□ Coal				
□ Fuel	Oil - wood	□ Solar				
□ Othe	er:					
3.	Locations of heating system:	Exterior				
4	Is there air conditioning?    YES   N	NO Forced ail				
If YES:	□ Central Air □ Wind	dow Units				
	Specify location:					
5,	Other types of ventilation present:	Bathroom vents (outside intake air)				
	<ul><li>Mechanical fans</li></ul>					
	□ Kitchen exhaust fan, where is it ve	nted?				
6.	Are there air distribution ducts prese	nt? - YES X NO				
7. cold a	Describe the supply and cold air ret	urn duct work including whether there is a				



8.	Is there a whole house fan? □YES XNO				
	Is the fan operating? $\Box$ YES $\stackrel{.}{\Box}$ NO $\stackrel{.}{N}\!$				
	What is the size of the fan?				
8.	Temperature settings inside during sampling (note day and night temperatures).				
	a. Daytime Temperature(s) 7 5 - 80				
	b. Nighttime Temperature(s) 75-80 = sometimes drops to 80				
(Not	e times if system cycles during non-occupied hours during the day.)				
9. into	Estimate the average time doors and windows are open to allow fresh outside air the building. Note rooms that frequently have open windows or doors:				
D.	Potential Indoor Sources of Pollution				
1.	Are solvents used □YES XNO				
	What types:				
2.	Is the laundry room located inside the building?				
3.	Has the building ever had a fire?   YES NO When:				
4.	Is there an attached garage?				
5.	Is a vehicle normally parked in the garage? $\Box$ YES $\nearrow$ NO				
	Gasoline powered equipment or storage canisters in garage? □YES XNO				
6.	Is there a kerosene heater present? ¬YES ŽNO				
7.	Is there a workshop, hobby or craft area in the building?           YES				
	An inventory of all products used or stored in the building should be performed. products that contain volatile organic compounds or chemicals similar to the target pounds should be listed. The attached <b>Products Inventory Form</b> (see page 11)				

should be used for this purpose.



9.	Is the stove: 🗆 Gas 🗆 Electric	Is the oven: 🗆 Gas 🗆 Electric	NA		
10.	Is there an automatic dishwasher?	YES XNO			
11.	Do people smoke in the building? - YES XNO				
	How many smokers? How long	g since they last smoked inside?	_		
12.	Has the building ever been fumigated	d or sprayed for pests? □YES □NO			
If YES	, give date, type and location of treatm	ent:	<del></del>		
E.	Water and Sewage				
1.	Source of Water (check appropriate response)				
	Mublic Water	□Dug Well			
	□Drilled Well	Other (specify):			
	□Driven Well				
2.	Water Well Specifications				
	Well Diameter				
	Well Depth				
	Depth to Bedrock				
	Feet of Casing				
	Grouted or Un-grouted				
	Type of Storage Tank				
	Size of Storage Tank				



Describe type(s) of Treatment:
3. Water Quality
Taste and/or odor problems with water? □ YES □ NO
If YES, describe:
Is the water chlorinated, brominated, or ozonated?   YES   NO
How long has the taste and/or odor problem been present?
4. Sewage Disposal
Apublic Sewer
□ Septic Tank
□ Leach Field
□ Other (specify):
Distance from well to septic system:
Type of septic tank additives:



### F. Plan View

Sketch each floor and if applicable, indicate air sampling locations, possible indoor air pollution sources, preferential pathways and field instrument readings.

See attained



G.	Potential Outdoor Sources of Pollution
Is the	ere heavy traffic in the area XYES 🗆 NO
Stati	onary nearby sources (gas stations, emission stacks, etc 🗆 YES 🗀 NO
Desc	cribe
Con	taminant Site (1000' radius) 🗆 YES 🗆 NO
Desc	cribe MHIC- Cormor resinery
infor servi	v a diagram of the area surrounding the building being sampled. If applicable, provide mation on the spill locations (if known), potential air contamination sources (industries, ce stations, repair shops, retail shops, landfills, etc.), outdoor air sampling locations, and field ument readings.
tem; the v	, on the diagram, indicate barometric pressure, weather conditions, ambient and indoor peratures, compass direction, wind direction and speed during sampling, the locations of water wells, septic systems, and utility corridors if applicable, and a statement to help locate site on a topographical map.
Н.	Date of last painting or staining of surfaces at the facility: wnknown - not recen +
	Location where painting or staining occurred:
I.	Date of last carpet/flooring replacement:unknown - not recent
	Location(s):
	A
	Was glue used to attach carpeting to floor slab?
l.	Describe Process/Manufacturing/Storage Areas:
	Not applicable
	( )



3		
J.	Existing Soil Vapor Control Devices (pipes, vents, blowers, HVAC Add	-ons)
Desc	eribe Observations, Locations: UN	10
K.	Existing sub slab depressurization (ie radon) system in place?   YES	ı NC
	Is the system - Active - Passive Operational - YES - NO	
L.	Wall Surfaces (painted, textured)	
M.	Noted Interior Sinks for VOCs	



## PRODUCTS INVENTORY FORM

Occupant of Building: Supore	bogistics -		
Address: Hewes and F	- ()		
Field Investigator: Jenny	PeBow Date:	1/19/17	
Product Description	VOCs Contained in Product	Field Instrument Reading	Removed for testing?
(Commercial name, dispenser type, container size, manufacturer)	riodoci	Reduing	resinig:
McCall Surfacede			
Disincectant Cleaner			
McCalls Glass Cleano			
McCalls Fresh Breeze Syper Concentrated deadorize McCall complete	i aid frostent		
Mc Call complete	1 110 110 110 11		
Bathrooms bowl Clean	ها		
Wintercinse ica, melitrinse aid			
Pureil 1			

Comments:	 	V.